

Agenda
University Reciprocating Engine Program Review
April 9-10, 2003

Wednesday, April 9, 2003

- 8:00 a.m. ***Registration / Continental Breakfast***
- 9:00 a.m. *Welcome* — Tom George, U.S. DOE NETL, and Ron Fiskum, U.S. DOE EERE
- 9:15 a.m. *Fundamental Studies of Ignition Processes in Large Natural Gas Engines Using Laser Spark Ignition*, Bryan Willson, Colorado State University, Fort Collins, Colorado
- 9:45 a.m. *Low Engine Friction Technology for Advanced Natural Gas Reciprocating Engines*
Victor Wong, Massachusetts Institute of Technology, Cambridge, Massachusetts
- 10:15 a.m. ***Break***
- 10:30 a.m. *Ignition Improvement of Lean Natural Gas Mixtures*, Lee Oberto and Kirk Opella,
Michigan Technological University, Houghton, Michigan
- 11:00 a.m. *Advanced Natural Gas Reciprocating Engine: Parasitic Loss Control Through Surface Modification*, Farshid Sadeghi, Purdue University, West Lafayette, Indiana
- 11:30 a.m. *Corona Discharge Ignition for Advanced Stationary Natural Gas Engines*,
Paul D. Ronney, University of Southern California, Los Angeles, California
- 12:00 p.m. *Reduced Engine Friction and Wear*, Ron Matthews, University of Texas at Austin,
Austin, Texas
- 12:30 p.m. ***Lunch — NETL Cafeteria***
- 1:30 p.m. *Rail-Plug Ignition System for Enhancing Engine Performance and Reducing Maintenance*, Ron Matthews, University of Texas at Austin, Austin, Texas
- 2:00 p.m. *Selective NO_x Re-Circulation for Stationary Lean-Burn Natural Gas Engine*
Nigel Clark, West Virginia University, Morgantown, West Virginia
- 2:30 p.m. *Energy Thermal Management via Active Flow Control*, David Irick, University of
Tennessee, Knoxville, Tennessee
- 3:00 p.m. ***Break***

- 3:15 p.m. *Two Stage Catalytic Reduction of NO_x*, Umit S. Ozkan, Ohio State University, Columbus, Ohio
- 3:45 p.m. *Improvement to Pipeline Compressor Engine Reliability Through Retro-Fit Micro-Pilot Ignition System*, Bryan Willson, Colorado State University, Fort Collins, Colorado
- 4:15 p.m. *Guest Universities (TBD) & Discussion*
- 5:00 p.m. ***Adjourn***
- 7:00 p.m. *Dinner — Peking House Chinese Restaurant*

Thursday, April 10, 2003

- 8:30 a.m. ***Registration / Continental Breakfast***
- 9:00 a.m. University Working Group Meeting Facilitated by Tom George and Ron Fiskum

(Working group meetings are optional for National Lab and Industry Stakeholders, but two separate rooms will be reserved should these two groups want to meet to elect their own facilitator and develop their own agenda.)

- 10:15 a.m. ***Break***
- 10:30 a.m. Reconvene of Working Groups
- 11:15 a.m. Summarize Working Group Meeting Results
- 11:30 a.m. ***Lunch — NETL Cafeteria***
- 1:00 p.m. Tour of NETL Lab
- 2:30 p.m. Tour of WVU's Reciprocating Engine Facilities

NOTE: All attending, including speakers, will be invited to participate in an informal peer review by filling out an evaluation form on each talk. Any individual will have the option to evaluate all the talks or none.